

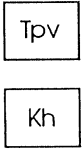
Base from U.S. Geological Survey,
Trail, 1943; Tiller, 1944; Days Creek, Gold Hill,
Medford, and Wimer, 1954
Polyconic projection

Geology mapped by M. M. Donato, 1985-89; assisted
by Dianna Dunning, 1985; Lars Berg, 1986; Miranda
Fram, 1987; Pamela Gernery, 1988; and Charles
Mellancamp, 1989

Edited by Dale Russell; prepared by Lori Moore
Manuscript approved for publication May 23, 1991

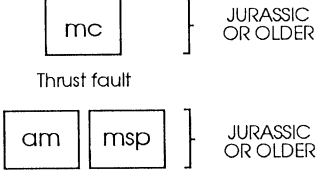
CORRELATION OF MAP UNITS
(Ages shown are protolith ages)

SEDIMENTARY ROCKS

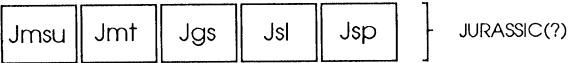


METAMORPHIC ROCKS

Western Paleozoic and Triassic belt
May Creek terrane of Silberting and others
(1987) and Irwin (in press)



Western Jurassic belt
Rogue Valley subterrane (of the
western Klamath terrane)



INTRUSIVE ROCKS



LIST OF MAP UNITS

[See pamphlet for Description of Map Units]

- Tpv Pyroclastic and volcanoclastic rocks (Oligocene)
Kh Hornbrook Formation (Early Cretaceous)
mc May Creek Schist (Jurassic or older)
am Amphibolite (Jurassic or older)
msp Metaserpentinite (Jurassic or older)
Jmsu Mafic schists and siliceous metasedimentary rocks, undifferentiated (Jurassic?)
Jmt Metamorphosed tuffaceous sedimentary rocks (Jurassic?)
Jgs Greenstone (Jurassic?)
Jsl Slate and phyllite (Jurassic?)
Jsp Serpentinite (Jurassic?)
Kd Biotite-hornblende leucotonalite to granodiorite (Early Cretaceous)
Jdqd Hornblende-biotite quartz diorite (Early Cretaceous?)
Jdqd Diorite and quartz diorite (Late Jurassic?)
qa Quartz anorthosite (Jurassic or older)

EXPLANATION

Contact—Dashed where approximately located;
queried where uncertain. Shown as solid
lines in cross-sections

Fault—Dashed where approximately located;
queried where uncertain. Shown as solid
lines in cross-sections

Thrust fault—Dashed where approximately
located; sawteeth on upper plate.
Arrows in cross section indicate direction
of relative movement. Shown as solid
lines in cross-sections

Bedding—Showing strike and dip

Metamorphic foliation—Showing strike and dip

Mylonitic mineral lineation—May be combined
with symbol for metamorphic foliation

Nonmylonitic mineral lineation—May be
combined with symbol for metamorphic
foliation

Igneous foliation—Showing strike and dip

Calcareous interval within May Creek Schist—
Orientation of pattern approximately
coincides with foliation

Ductile deformation within May Creek Schist—
Orientation of pattern not significant

Features within the amphibolite unit (am)

Relict gabbroic textures

Relict diabasic textures

Relict porphyritic textures

Zone of metamorphosed dikes or sills—
Orientation of pattern not significant

Zone of chlorite-pyrite alteration—
Orientation of pattern not significant

Contact metamorphosed zone

★ (71) Locality where garnet-biotite temperatures were
determined—Sample number shown

* 145 ± 2 Locality where ⁴⁰Ar/³⁹Ar age was determined on
hornblende—Age shown in Ma (millions
of years ago)

GEOLOGIC MAP SHOWING PART OF THE MAY CREEK SCHIST AND RELATED ROCKS, JACKSON COUNTY, OREGON

By

Mary M. Donato

1991